

**REMARKS**

Claims 1-17, 19-32 and 34-56 are pending in this application. By this Amendment, claims 18 and 33 are canceled, claims 15, 19, 30, 34, and 45 are amended and new claims 47-56 are added.

Applicants gratefully acknowledge the Office Action's indication that claims 5, 8-14, 16-19, 22-29, 31-34, 37-44 and 46 contain allowable subject matter. By this Amendment independent claim 15 is amended to include allowable features of dependent claim 18. Thus, independent claim 15 defines patentable subject matter. Furthermore, dependent claim 19 is rewritten in independent form to include features of claims 15 and 19. Thus, independent claim 19 defines patentable subject matter. Furthermore, independent claim 30 is amended to include allowable features of previous dependent claim 33. Thus, independent claim 30 defines patentable subject matter. Furthermore, claim 34 is rewritten in independent form to include features of claims 30 and 34. Thus, independent claim 34 defines patentable subject matter.

The Office Action rejects claims 1-4, 6, 7 and 45 under 35 U.S.C. §103(a) over Applicant's Alleged Admitted Prior Art (hereafter AAPA) in view of U.S. Patent 5,212,472 to Takahashi et al. (hereafter Takahashi). The rejection is respectfully traversed.

Independent claim 1 recites a plurality of sustain electrode pairs, a plurality of priming electrodes and a dielectric layer. The plurality of priming electrodes configured to increase the amount of priming particles in a discharge cell to reduce the discharge lag formed one by one between a pair of the sustain electrodes.

Applicant's Alleged Prior Art and Takahashi, either alone or in combination, do not teach or suggest all the features of independent claim 1. More specifically, the Office Action relies on Figure 1A of the present application as being prior art even though it is discussed in the present application. However, Figure 1A has not been admitted to be prior art, but rather has only been asserted by the Patent Office as being prior art without any basis. Figure 1A is discussed in the Related Art section of the present specification, and therefore has not been admitted to be prior art. As such, the rejection based on AAPA should be withdrawn at least for this reason. Applicants will provide the following additional remarks to further prosecution.

The Office Action also appears to suggest that AAPA discloses a plurality of electrode pairs and a dielectric layer. The Office Action agrees that "AAPA does not show priming electrodes configured to increase the amount [of] priming particles in a discharge cell to reduce lag formed between pair of sustain electrodes." The Office Action then relies on Takahashi as showing a PDP device that shortens the discharge lag time between electrodes that prevents incorrect discharge. The Office Action then asserts that it would have been obvious to allow the teaching from Takahashi's phase effect of prime effect to reduce discharge lag into a PDP of AAPA. However, this combination, even if possibly made, still does not teach or suggest the claimed priming electrodes. That is, neither Takahashi nor AAPA, references a plurality of priming electrodes. As such, the combination fails to teach or suggest all the features of independent claim 1. The Office therefore fails to make a *prima facie* case of obviousness.

Furthermore, Takahashi does not teach or suggest the claimed plurality of priming electrodes configured to increase the amount of priming particles in a discharge cell to reduce discharge lag formed one by one between a pair of the sustain electrodes. The Office Action references Takahashi's column 6, lines 1-10, 41-45 and 56-67; column 7, lines 1-30; column 10, lines 25-43; column 13, lines 38-47; column 16, lines 27-34; column 31, lines 17-54; and column 32 lines 34-45. However, these sections do not relate to a plurality of priming electrodes to increase the amount of priming particles in a discharge cell to reduce discharge lag formed one by one between a pair of the sustain electrodes. As such, the combination does not teach or suggest all the features of independent claim 1. Thus, independent claim 1 defines patentable subject matter.

Independent claim 7 defines patentable subject matter for at least similar reasons. That is, independent claim 7 recites applying a common pulse, which is periodically turned on/off, to the priming electrodes, applying a scan pulse to one of a pair of the sustain electrodes, and applying an address pulse to the address electrodes when the scan pulse is applied to the one sustain electrode. For similar reasons as set forth above, AAPA and Takahashi do not teach or suggest the claimed priming electrodes. Therefore, the applied references do not suggest applying a common pulse, which is periodically turned on/off, to the priming electrodes. Thus, independent claim 7 defines patentable subject matter.

Still further, independent claim 45 recites a discharge cell, sustain electrodes, address electrodes, scan electrodes and means of forming priming particles in the discharge cell to reduce

discharge lag. Independent claim 45 further recites that the means of forming particles includes electrodes separate from the sustain electrodes, the address electrodes and the scan electrodes. For at least similar reasons as set forth above, Takahashi and AAPA do not teach or suggest the claimed sustain electrodes, address electrodes, scan electrodes and means of forming priming particles in the discharge cell to reduce discharge lag, where the means of forming priming particles includes electrodes separate from the sustain electrodes, the address electrodes and the scan electrodes. Thus, independent claim 45 defines patentable subject matter at least for this reason.

For at least the reason set forth above, each of independent claims 1, 7 and 45 define patentable subject matter. Claims 2-6 and 46-48 depend from claim 1, claims 8-14 and 49-51 depend from claim 7 and therefore define patentable subject matter at least for this reasons. In addition, the dependent claims also recite features that further and independently distinguish over the applied references. For example, dependent claim 47 (and similarly dependent claim 49) recites that the sustain electrode pairs are different structures than the priming electrodes. Takahashi and AAPA do not teach or suggest these features. Furthermore, dependent claim 48 (and similarly dependent claim 50) recites a plurality of scan electrode pairs formed on the upper electrode different from the sustain electrode pairs and the priming electrodes. Takahashi and AAPA do not teach or suggest these features.

Additionally, dependent claim 49 (and similar dependent claims 53 and 56) recites that the plasma display panel comprises an AC-type plasma display panel. However, Takahashi

relates to a DC-type plasma display panel, which operates differently than an AC-type plasma display panel. See the entire Background section of Takahashi relating to a DC-type plasma display panel. As such, the combination including Takahashi does not teach or suggest all the features of independent claims 49, 53 and 56. Thus, these dependent claims define patentable subject matter at least for this additional reason.

Furthermore, dependent claim 52 recites that the common pulse is applied at a different time than the scan pulse and the address pulse. Furthermore, dependent claim 54 recites that the means of forming priming particles applies a pulse separate from an address pulse and a scan pulse. Still further, dependent claim 55 recites that the pulse is of a voltage insufficient to cause discharge within the discharge cell. Takahashi and AAPA do not teach or suggest these features. Each of these dependent claims defines patentable subject matter for at least these additional reasons.

### **CONCLUSION**

In view of the foregoing, it is respectfully submitted that the application is in condition for allowance. Favorable consideration and prompt allowance of claims 1-17, 19-32 and 34-56 are earnestly solicited. If the Examiner believes that any additional changes would place the application in better condition for allowance, the Examiner is invited to contact the undersigned attorney, **David C. Oren**, at the telephone number listed below.

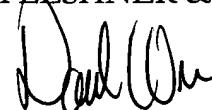
To the extent necessary, a petition for an extension of time under 37 C.F.R. 1.136 is hereby made. Please charge any shortage in fees due in connection with the filing of this,

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Reply to Office Action dated June 17, 2004

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concurrent and future replies, including extension of time fees, to Deposit Account 16-0607 and  
please credit any excess fees to such deposit account.

Respectfully submitted,  
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